

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) 480848.900	Application Number 09/830837	
				Applicant(s) SEIDAH, Nabil G. et al.	Filing Date April 30, 2001	Group Art Unit 1656 Unassigned
<b>U.S. PATENT DOCUMENTS</b>						
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS
<b>FOREIGN PATENT DOCUMENTS</b>						
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation
						YES
<b>OTHER DOCUMENTS</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>						
<i>WWM</i>	0	Abrami, L. et al. (1998). "The Pore-forming Toxin Proaerolysin Is Activated by Furin". The Journal of Biological Chemistry, 273: 32656-32661.				
<i>WWM</i>	0	Anderson, E.D. et al. (1993). "Inhibition of HIV-1 gp160-dependent Membrane Fusion by a Furin-directed $\alpha$ 1-Antitrypsin Variant". The Journal of Biological Chemistry, 268: 24887-24891.				
EXAMINER <i>William M. Moore</i>			DATE CONSIDERED <i>11 October 2005</i>			

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WWM	Basak, A. et al. (1995). "Application of the Multiple Antigenic Peptides (MAP) Strategy to the Production of Prohormone Convertases Antibodies: Synthesis, Characterization and use of 8-Branched Immunogenic Peptides". <i>Journal of Peptide Science</i> , 1: 385-395.
WWM	Basak, A. et al. (1997). "Histidine-rich human salivary peptides are inhibitors of proprotein convertases furin and PC7 but act as substrates for PC1". <i>J. Peptide Res.</i> , 49: 596-603.
WWM	Bellosta, S. et al. (1998). "Direct vascular effects of HMG-CoA reductase inhibitors". <i>Atherosclerosis</i> 137 Suppl. (1998): S101-S109.
WWM	Benjannet, S. et al. (1997). " $\alpha$ 1-Antitrypsin Portland Inhibits Processing of Precursors Mediated by proprotein Convertases Primarily within the Constitutive Secretory Pathway". <i>The Journal of Biological Chemistry</i> , 272: 26210-26218.
WWM	Benjannet, S. et al. (1998). "Residues unique to the pro-hormone convertase PC2 modulate its autoactivation, binding to 7B2 and enzymatic activity". <i>FEBS Letters</i> , 428: 37-42.
WWM	Boudreault, A. et al. (1998). "Proprotein Convertase PC1/3-related Peptides Are Potent Slow Tight-binding Inhibitors of Murine PC1/3 and Hfurin". <i>The Journal of Biological Chemistry</i> , Vol. 273, No. 47: 31574-31580.
WWM	Brown, M.S. et al. (1997). "The SREBP Pathway: Regulation of Cholesterol Metabolism by Proteolysis of a Membrane-Bound Transcription Factor". <i>Cell</i> , 89: 331-340.
WWM	Brown, M.S. et al. (1999). "A proteolytic pathway that controls the cholesterol content of membranes, cells, and blood". <i>Proc. Natl. Acad. Sci. USA</i> , 96: 11041-11048.
WWM	Burbach, J.P.H. et al. (1986). "Isolation and primary structure of novel neurointermediate pituitary peptides derived from the C-terminal of the rat vasopressin-neurophysin precursor (propressophysin)". <i>Eur. J. Biochem</i> , 156: 137-142.
WWM	Checlerc, Frédéric (1995). "Short Review: Processing of the <i>B</i> -Amyloid Precursor Protein and Its Regulation in Alzheimer's Disease". <i>Journal of Neurochemistry</i> , Vol. 65, No. 4: 1431-1444.
WWM	Cheng, D. et al. (1999). "Secreted Site-1 Protease Cleaves Peptides Corresponding to Luminal Loop of Sterol Regulatory Element-binding Proteins". <i>The Journal of Biological Chemistry</i> , 274: 22805-22812.
WWM	Chiron, M.F. et al. (1994). "Cleavage of Pseudomonas Exotoxin and Diphtheria Toxin by a Furin-like Enzyme Prepared from Beef Liver". <i>The Journal of Biological Chemistry</i> , Vol. 269, No. 27: 18167-18176.

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*William W. Meier*

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*10 October 2005*

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Chrétien, M. et al. (1995). "Proprotein Convertases and the Pathophysiology of Human Diseases: Prospective Considerations". Proceedings of the Association of American Physicians, 107: 47-66.

De Bie, I. et al. (1996). "The Isoforms of Proprotein Convertase PC5 Are Sorted to Different Subcellular Compartments". Journal of Cell Biology, 135: 1261-1275.

Decroly, E. et al. (1997). "Comparative functional role of PC7 and furin in the processing of the HIV envelope glycoprotein gp160". FEBS Letters, 405: 68-72.

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Endres, M. et al. (1998). "Stroke protection by 3-hydroxy-3-methylglutaryl (HMG)-CoA reductase inhibitors mediated by endothelial nitric oxide synthase". Proc. Natl. Acad. Sci. USA, 95: 8880-8885.

Gallagher, T. et al. (1995). "The prosegment-subtilisin BPN' complex: crystal structure of a specific 'foldase'". Structure, 3: 907-914.

Glasson, M.J. et al. (1998). "Development of mini-gel technology in two-dimensional electrophoresis for mass-screening of samples: Application to tears". Electrophoresis, 19: 852-855.

Gram, Hermann et al. (1994). "A novel Approach for High Level Production of a Recombinant Human Parathyroid Hormone Fragment in Escherichia coli". Bio/Technology, 12: 1017-1023.

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Guizarro, C. et al. (1998). "3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase and Isoprenylation Inhibitors Induce Apoptosis of Vascular Smooth Muscle Cells in Culture". Circ Res., 83: 490-500.

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<i>ACW</i>	Gupta, S.K. et al. (1995). "A potent inhibitor or endothelial cell proliferation is generated by proteolytic cleavage of the chemokine platelet factor 4". Proc. Natl. Acad. Sci. USA, 92: 7799-7803.
<i>ACW</i>	Hallenberger, S. et al. (1992). "Inhibition of furin-mediated cleavage activation of HIV-1 glycoprotein gp160". Nature, 360: 358-361.
<i>ACW</i>	Hallenberger, S. et al. (1997). "The Role of Eukaryotic Subtilisin-Like Endoproteases for the Activation of Human Immunodeficiency Virus Glycoproteins in Natural Host Cells". Journal of Virology, 71: 1036-1045.
<i>ACW</i>	Hooper, N.M. et al. (1997). "Membrane protein secretases". Biochem J., 321: 265-279.
<i>ACW</i>	Howland, D.S. et al. (1998). "Modulation of Secreted B-Amyloid Precursor Protein and Amyloid B-Peptide in Brain by Cholesterol". The Journal of Biological Chemistry, 273: 16576-16582.
<i>ACW</i>	Hua, X. et al. (1993). "SREBP-2, a second basic-helix-loop-helix-leucine zipper protein that stimulates transcription by binding to a sterol regulatory element". Proc. Natl. Acad. Sci. USA, 90: 11603-11607.
<i>ACW</i>	Hudson, P. et al. (1981). "Molecular cloning and characterization of cDNA sequences coding for rat relaxin". Nature, 291: 127-131.
<i>ACW</i>	Inouye, Masayori (1991). "Intramolecular Chaperone: The Role of the Pro-Peptide in Protein Folding". Enzyme, 45: 314-321.
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<i>ACW</i>	Kendall, J.M. et al. (1994). "Changes in Free Calcium in the Endoplasmic Reticulum of Living Cells Detected Using Targeted Aequorin". Analytical Biochemistry, 221: 173-181.
<i>ACW</i>	Khan, A.R. et al. (1998). "Molecular mechanisms for the conversion of zymogens to active proteolytic enzymes". Protein Science, 7: 815-836.

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WWM	Kim, J.B. et al. (1996). "ADD1/SREBP1 promotes adipocyte differentiation and gene expression linked to fatty acid metabolism". <i>Genes &amp; Development</i> , 10: 1096-1107.
WWM	Kim, J.B. et al. (1998). "ADD1/SREBP1 activates PPAR $\gamma$ through the production of endogenous ligand". <i>Proc. Natl. Acad. Sci. USA</i> , 95: 4333-4337.
WWM	Kim, J.B. et al. (1998). "Nutritional and Insulin Regulation of Fatty Acid Synthetase and Leptin Gene Expression through ADD1/SREBP1". <i>J. Clin. Invest.</i> , 101: 1-9.
WWM	Kim, J.H. et al. (1998). "Noninvasive measurement of the pH of the endoplasmic reticulum at rest and during calcium release". <i>Proc. Natl. Acad. Sci. USA</i> , 95: 2997-3002.
WWM	Laufs, U. et al. (1998). "Upregulation of Endothelial Nitric Oxide Synthase by HMG CoA Reductase Inhibitors". <i>Circulation</i> , 97: 1129-1135.
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WWM	Lei, Y. et al. (1999). "Identification of Mouse CPX-1, a Novel Member of the Metallocarboxypeptidase Gene Family with Highest Similarity to CPX-2". <i>DNA and Cell Biology</i> , 18: 175-185.
WWM	Ling, N. et al. (1976). "Isolation, primary structure, and synthesis of $\alpha$ -endorphin and $\beta$ -endorphin, two peptides of hypothalamic-hypophysial origin with morphinomimetic activity". <i>Proc. Natl. Acad. Sci. USA</i> , 73: 3942-3946.
WWM	Lippincott-Schwartz, J. et al. (1989). "Rapid Redistribution of Golgi Proteins into the ER in Cells Treated with Brefeldin A: Evidence for Membrane Cycling from Golgi to ER". <i>Cell</i> , 56: 801-813.
WWM	Lippincott-Schwartz, J. et al. (1991). "Brefeldin A's Effects on Endosomes, Lysosomes, and the TGN Suggest a General Mechanism for Regulating Organelle Structure and Membrane Traffic". <i>Cell</i> , 67: 601-616.
WWM	Llopis, Juan et al. (1998). "Measurement of cytosolic, mitochondrial, and Golgi pH in single living cells with green fluorescent proteins". <i>Proc. Natl. Acad. Sci. USA</i> , 95: 6803-6808.

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*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
WWM	Lusson, J. et al. (1993). "cDNA structure of the mouse and rat subtilisin/kexin-like PC5: A candidate proprotein convertase expressed in endocrine and nonendocrine cells". Proc. Natl. Acad. Sci. USA, 90: 6691-6695.
WWM	Maisonpierre, P.C. et al. (1991). "Human and Rat Brain-Derived Neurotrophic Factor and Neurotrophin-3: Gene Structures, Distributions, and Chromosomal Localizations". Genomics, 10: 558-568.
WWM	Malide, D. et al. (1995). "Electron Microscopic Immunocytochemical Evidence for the Involvement of the Convertases PC1 and PC2 in the Processing of Proinsulin in Pancreatic B-Cells". The Journal of Histochemistry and Cytochemistry, 43: 11-19.
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WWM	McNamara, M.J. et al. (1998). "Immunohistochemical and in situ analysis of amyloid precursor-like protein-1 and amyloid precursor-like protein-2 expression in Alzheimer disease and aged control brains". Brain Research, 804: 45-51.
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WWM	Muller, L. et al. (1997). "Mechanism of the Facilitation of PC2 Maturation by 7B2: Involvement in ProPC2 Transport and Activation but Not Folding". The Journal of Cell Biology, 139: 625-638.
WWM	Munzer, J.S. et al. (1997). "In Vitro Characterization of the Novel Proprotein Convertase PC7". The Journal of Biological Chemistry, 272: 19672-19681.
WWM	Mutoh, T. et al. (1999). "Involvement of tyrosine phosphorylation in HMG-CoA reductase inhibitor-induced cell death in L6 myoblasts". FEBS Letters, 444: 85-89.
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WWM	Nohturff, Axel et al. (1998). "Sterols regulate processing of carbohydrate chains of wild-type SREBP cleavage-activating protein (SCAP), but not sterol-resistant mutants Y298C or D443N". Proc. Natl. Acad. Sci. USA, 95: 12848-12853.

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WWM	Nobturff, Axel et al. (1999). "Sterols regulate cycling of SREBP cleavage-activating protein (SCAP) between endoplasmic reticulum and Golgi". Proc. Natl. Acad. Sci. USA, 96: 11235-11240.
WWM	O'Reilly, M.S. et al. (1994). "Angiostatin: A Novel Angiogenesis Inhibitor That Mediates the Suppression of Metastases by a Lewis Lung Carcinoma". Cell, 79: 315-328.
WWM	Paquet, L. et al. (1994). "The Neuroendocrine Precursor 7B2 Is a Sulfated Protein Proteolytically Processed by a Ubiquitous Furin-like Convertase". The Journal of Biological Chemistry, 269: 19279-19285.
WWM	Power, S.D. et al. (1986). "Secretion and autoproteolytic maturation of subtilisin". Proc. Natl. Acad. Sci. USA, 83: 3096-3100.
WWM	Raiteri, M. et al. (1997). "Pharmacological Control of the Mevalonate Pathway: Effect on Arterial Smooth Muscle Cell Proliferation". The Journal of Pharmacology and Experimental Therapeutics, 281: 1144-1153.
WWM	Rassoulzadegan, M. et al. (1998). "APLP2, a member of the Alzheimer precursor protein family, is required for correct genomic segregation in dividing mouse cells". The EMBO Journal, 17: 4647-4656.
WWM	Rawson, R.B. et al. (1997). "Complementation Cloning of S2P, a Gene Encoding a Putative Metalloprotease Required for Intramembrane Cleavage of SREBPs". Molecular Cell, 1: 47-57.
WWM	Reeves, J.P. et al. (1981). "Intracellular disruption of rat heart lysosomes by leucine methyl ester: Effects on protein degradation". Proc. Natl. Acad. Sci. USA, 78: 4426-4429.
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WWM	Rosendahl, M.S. et al. (1997). "Identification and Characterization of a Pro-tumor Necrosis Factor- $\alpha$ -processing Enzyme from the ADAM Family of Zinc Metalloproteases". The Journal of Biological Chemistry, Vol. 272, No. 39: 24588-24593.
WWM	Rovère, C. et al. (1999). "The RGD Motif and the C-terminal Segment of Proprotein Convertase 1 Are Critical for Its Cellular Trafficking but Not for Its Intracellular Binding to Integrin $\alpha 5\beta 1$ ". The Journal of Biological Chemistry, 274: 12461-12467.
WWM	Sakai, J. et al. (1996). "Sterol-Regulated Release of SREBP-2 from Cell Membranes Requires Two Sequential Cleavages, One Within a Transmembrane Segment". Cell, 85: 1037-1046.

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WWM	Sambrook, J.F. (1990). "The Involvement of Calcium in Transport of Secretory Proteins from the Endoplasmic Reticulum". <i>Cell</i> , 61: 197-199.
WWM	Scheek, S. et al. (1997). "Sphingomyelin depletion in cultured cells blocks proteolysis of sterol regulatory element binding proteins at site 1". <i>Proc. Natl. Acad. Sci. USA</i> , 94: 11179-11183.
WWM	Seidah, N.G. et al. (1994). "The family of subtilisin/kexin like pro-protein and pro-hormone convertases: Divergent or shared functions". <i>Biochimie</i> , 76: 197-209.
WWM	Seidah, Nabil G. (1995). "Molecular Strategies for Identifying Processing Enzymes". <i>Methods in Neurosciences</i> , 23: 3-15.
WWM	Seidah, N.G. et al. (1996). "cDNA structure, tissue distribution, and chromosomal localization of rat PC7, a novel mammalian proprotein convertase closest to yeast kexin-like proteinases". <i>Proc. Natl. Acad. Sci. USA</i> , 93: 3388-3393.
WWM	Seidah, N.G. et al. (1996). "Cellular processing of the neurotrophin precursors of NT3 and BDNF by the mammalian proprotein convertases". <i>FEBS Letters</i> 379: 247-250.
WWM	Seidah, N.G. et al. (1998). "Precursor Convertases: An Evolutionary Ancient, Cell-Specific, Combinatorial Mechanism Yielding Diverse Bioactive Peptides and Proteins". <i>Ann. NY Acad. Sci.</i> , 839: 9-24.
WWM	Seidah, N.G. et al. (1998) "The Mammalian Precursor Convertases: Paralogs of the Subtilisin/Kexin Family of Calcium-Dependent Serine Proteinases", In: Hook, V.Y.H. (Ed.), <i>Proteolytic and Cellular Mechanisms in Prohormone and Proprotein Processing</i> , R.G. Landes Company, Georgetown, TX, USA, chapter 3: 49-76.
WWM	Shimomura, I. et al. (1998). "Insulin resistance and diabetes mellitus in transgenic mice expressing nuclear SREBP-1c in adipose tissue: model for congenital generalized lipodystrophy". <i>Genes &amp; Development</i> , 12: 3182-3194.
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WWM	Shimomura, I. et al. (1999). "Increased Levels of Nuclear SREBP-1c Associated with Fatty Livers in Two Mouse Models of Diabetes Mellitus". <i>The Journal of Biological Chemistry</i> , 274: 30028-30032.
WWM	Soma, M.R. et al. ((1992). "Cholesterol and mevalonic acid modulation in cell metabolism and multiplication". <i>Toxicology Letters</i> , 64/65: 1-15.

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WWM	Spence, M.W. and Callahan, J.W. (1989). "Sphingomyelin-Cholesterol Lipidoses: The Niemann-Pick Group of Diseases". In <i>The Metabolic Basis of Inherited Disease</i> (Scriver, C.R. et al., editors), McGraw-Hill Publ. Co., 6th Edition, chapter 66: 1655-1676.
WWM	Steiner, Donald F. (1998). "The proprotein convertases". <i>Curr. Opin. Chem. Biol.</i> , 2: 31-39.
WWM	Sviridov, D. (1999). "Intracellular cholesterol trafficking". <i>Histology &amp; Histopathology</i> , 14: 305-319.
WWM	Volchkov, Viktor E. et al. (1998). "Processing of the Ebola virus glycoprotein by the proprotein convertase furin". <i>Proc. Natl. Acad. Sci. USA</i> , 95: 5762-5767.
WWM	Wang, X. et al. (1994). "SREBP-1, a Membrane-Bound Transcription Factor Released by Sterol-Regulated Proteolysis". <i>Cell</i> , 77: 53-62.
WWM	Yan, Q. et al. (1997). "Expression of Brain-Derived Neurotrophic Factor Protein in the Adult Rat Central Nervous System". <i>Neuroscience</i> , 78: 431-448.
WWM	Zhong, Mei et al. (1999). "The Prosegments of Furin and PC7 as Potent Inhibitors of Proprotein Convertases". <i>The Journal of Biological Chemistry</i> , Vol. 274, No. 48: 33913-33920.
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WWM	1 October 2015

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